



General

Title

Physician to population ratio: total number of specialist physicians per 100,000 population.

Source(s)

Canadian Institute for Health Information (CIHI). Health indicators 2010: definitions, data sources and rationale. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2010 May. 47 p.

Measure Domain

Primary Measure Domain

Structure

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the Measure Validity page.

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to assess the total number of specialist physicians (Medical, Surgical and Laboratory Specialists) on December 31st of the reference year per 100,000 population.

See the related National Quality Measures Clearinghouse (NQMC) summary of the Canadian Institute for Health Information (CIHI) measure, Physician to population ratio: total number of general physicians and family physicians per 100,000 population.

Rationale

Physician to population ratios are used to support health human resource planning. While physician density ratios are useful indicators of changes in physician numbers relative to the population, inference

from total numbers or ratios as to the adequacy of provider resources should not be made. Various factors influence whether the supply of physicians is appropriate, such as: distribution and location of physicians within a region or province; physician type (i.e., family medicine physicians vs. specialists); level of service provided (fulltime vs. part-time); physician age and gender; population's access to hospitals, health care facilities, technology and other types of health care providers; population needs (demographic characteristics and health problems); and society's perceptions and expectations.

In some regions, health facilities and personnel provide services to a larger community than the residents of the immediate region. In others, residents may seek care from physicians and specialists outside the region where they live. The ratio of physicians to population reflects the number of doctors in a region and has not been adjusted to take these movements into account. The extent to which this affects individual regions is likely to vary.

Primary Clinical Component

Specialist physicians (Medical, Surgical and Laboratory Specialists); physician to population ratio

Denominator Description

Total mid-year population

Numerator Description

Total number of specialist physicians (Medical, Surgical and Laboratory Specialists) on December 31st of the reference year (see the related "Numerator Inclusions/Exclusions" field)

Evidence Supporting the Measure

Evidence Supporting the Criterion of Quality

A formal consensus procedure involving experts in relevant clinical, methodological, and organizational sciences

Evidence Supporting Need for the Measure

Need for the Measure

Use of this measure to increase capacity

Variation in capacity

Evidence Supporting Need for the Measure

Canadian Institute for Health Information (CIHI). Health indicators 2010. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2010. 105 p.

State of Use of the Measure

State of Use

Current routine use

Current Use

Federal health policymaking

Internal quality improvement

National reporting

Application of Measure in its Current Use

Care Setting

Unspecified

Professionals Responsible for Health Care

Physicians

Lowest Level of Health Care Delivery Addressed

Regional

Target Population Age

Does not apply to this measure

Target Population Gender

Does not apply to this measure

Stratification by Vulnerable Populations

Does not apply to this measure

Characteristics of the Primary Clinical Component

Incidence/Prevalence

In Canada in 2008, the number of specialist physicians was 95 per 100,000 population.

Evidence for Incidence/Prevalence

Association with Vulnerable Populations

Unspecified

Burden of Illness

Unspecified

Utilization

Unspecified

Costs

Unspecified

Institute of Medicine (IOM) Healthcare Quality Report Categories

IOM Care Need

Not within an IOM Care Need

IOM Domain

Not within an IOM Domain

Data Collection for the Measure

Case Finding

Does not apply to this measure

Denominator Sampling Frame

Does not apply to this measure

Denominator Inclusions/Exclusions

Inclusions

Total mid-year population

Exclusions

Unspecified

Relationship of Denominator to Numerator

Does not apply to this measure

Denominator (Index) Event

Does not apply to this measure

Denominator Time Window

Does not apply to this measure

Numerator Inclusions/Exclusions

Inclusions

Total number of specialist physicians* (Medical, Surgical and Laboratory Specialists) on December 31st of the reference year

*The data includes physicians in clinical and non-clinical practice.

Exclusions

The data excludes residents and physicians who are not licensed to provide clinical practice and have requested that their information be published in the Canadian Medical Dictionary.

Physicians are geo-coded to a region based on the postal code of correspondence submitted to the Scott's Medical Database. Records with invalid, missing, or partial postal codes are excluded from the regional totals.

Measure Results Under Control of Health Care Professionals, Organizations and/or Policymakers

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

Numerator Time Window

Encounter or point in time

Data Source

Special or unique data

Level of Determination of Quality

Does not apply to this measure

Pre-existing Instrument Used

Unspecified

Computation of the Measure

Scoring

Rate

Interpretation of Score

Better quality is associated with a higher score

Allowance for Patient Factors

Does not apply to this measure

Standard of Comparison

External comparison at a point in time

External comparison of time trends

Internal time comparison

Evaluation of Measure Properties

Extent of Measure Testing

Unspecified

Identifying Information

Original Title

Specialist physicians.

Measure Collection Name

Health Indicators 2010

Submitter

Canadian Institute for Health Information - Nonprofit Organization

Developer

Canadian Institute for Health Information - Nonprofit Organization

Funding Source(s)

Canadian Government

Composition of the Group that Developed the Measure

Employees: Canadian Institute for Health Information (CIHI) Health Indicators

Financial Disclosures/Other Potential Conflicts of Interest

None

Adaptation

Measure was not adapted from another source.

Release Date

2006 Jun

Revision Date

2010 May

Measure Status

This is the current release of the measure.

This measure updates a previous version: Canadian Institute for Health Information (CIHI). Health indicators 2008: definitions, data sources and rationale. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2008 May. 39 p.

Source(s)

Canadian Institute for Health Information (CIHI). Health indicators 2010: definitions, data sources and rationale. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2010 May. 47 p.

Measure Availability

The individual measure, "Specialist Physicians," i	s published in "Health I	ndicators 2010: Definitions, Data
Sources and Rationale." This document is availab	le in Portable Documen	Format (PDF) from the Canadian
Institute for Health Information (CIHI) Web site		

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http://www.cihi.ca/cihiweb/].		

Companion Documents

The following is available:

Canadian Institute for Health Information (CIHI). Health indicators 2010. Ottawa (ON): Canadian Institute for Health Information (CIHI); 2010. 105 p. This document is available in Portable Document Format (PDF) from the Canadian Institute for Health Information (CIHI) Web site

NQMC Status

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